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### Use of a quasi-Newton method in a feedforward neural network ...

The **Cascade Correlation** algorithm can generate a network ... a quasi-Newton method called the **BFGS** method to neural. network training. ...

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### Faster-learning variations on back-propagation: An empirical study ...

The improved Rprop outperforms the other methods; only the **BFGS** performs better ... Learning with limited numerical precision using the **cascade-correlation** ...

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### 7 Square Unit Augmented, Radially Extended, Multilayer Perceptrons

(**BFGS**) for up to 200 epochs. The SMLPs were setup and trained exactly as the ... the **cascade correlation** topology, these networks used between 117 and 250 ...

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### Feedforward Neural Network Construction Using Cross Validation ...

The algorithms include the **cascade correlation** algorithm (Fahlman & Lebiere, ..... making the **BFGS** method prohibitively expensive in terms of memory storage ...

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MCC is based on **Cascade Correlation** (CC) Algorithm introduced by Fahlman and ... Uses second order Broydon-Fletcher-Goldfarb-Shanno (**BFGS**) method to ...

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The training of a multilayer network via **cascade-correlation** begins with ..... is given by **BFGS** formula. 7. Set.  $j = j + 1$ . and go to step 3. ...

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Broyden-Fletcher-Goldfarb-Shanno (**BFGS**) algorithm, 93 BSB Widrow-Hoff rule, 83 ... **Cascade correlation** networks, 91 Cascaded clustering, 21 ...

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### Journal of the Operational Research Society - Knowledge ...

In our implementation, a version of the quasi-Newton algorithm, the **BFGS** .... The use of **cascade-correlation** neural networks in University fund raising. ...

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(Lengell6 & Denoeux, 1992), but the **BFGS** second. order algorithm has been preferred in subsequent .... A comparison with **cascade-correlation** (CC) has ...

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### A Penalty-Function Approach for Pruning Feedforward Neural Networks

include the dynamic node creation (Ash 1989), the **cascade correlation** algo- .... quasi-Newton algorithm, the **BFGS** method. It has been shown that quasi- ...

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